FIG. 1

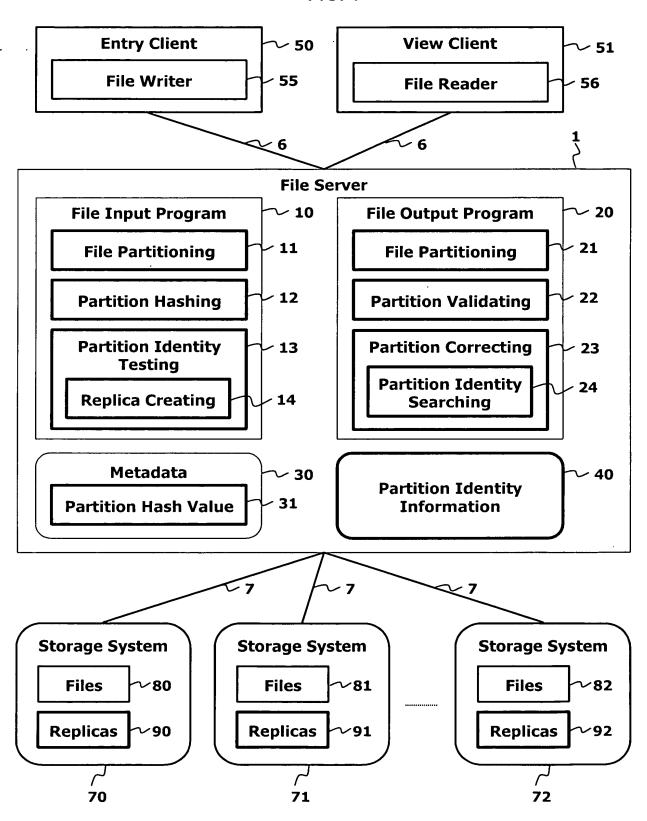
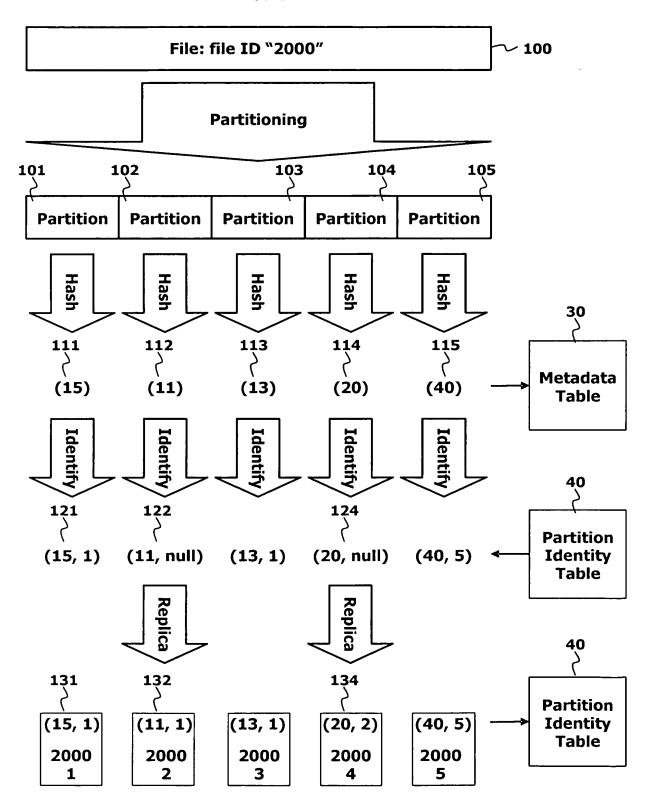
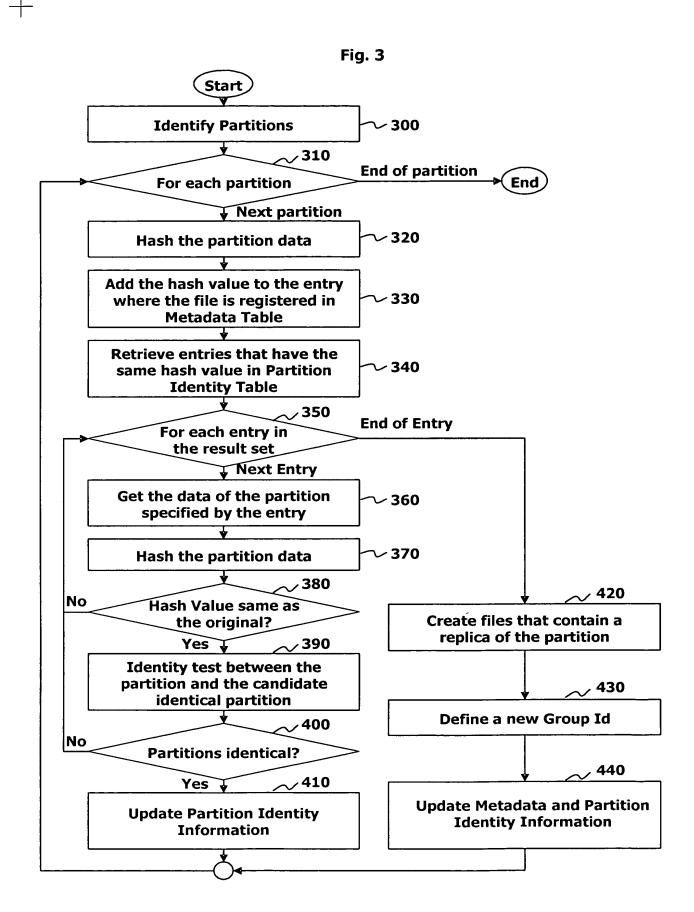


FIG. 2



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Inventor: Yuichi Yagawa
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70 0 لے	710	720	730	740 لم	30
File Id	Location		Hash Values	Size	
1000	1.10		10, 13, 20, 30	512	~751
2000	2.15		15, 11, 13, 20, 40	512	~ 752
3000	3.5		10, 18, 13, 40	1024	~753

FIG. 4

800	810	820	830	40
Hash Value	Group Id	File Id	Partition Number	
				i
10	3	5600	9	-
12	4	900	7	1
13	1	1000	2	~ 851
13	1	1500	3	~ 852
13	1	2000	3	~ 854
13	2	3000	3	~ 853
14	7	800	21	1
14	9	2300	3]
15	1	1600	2	
15	1	2000	1	

FIG. 5

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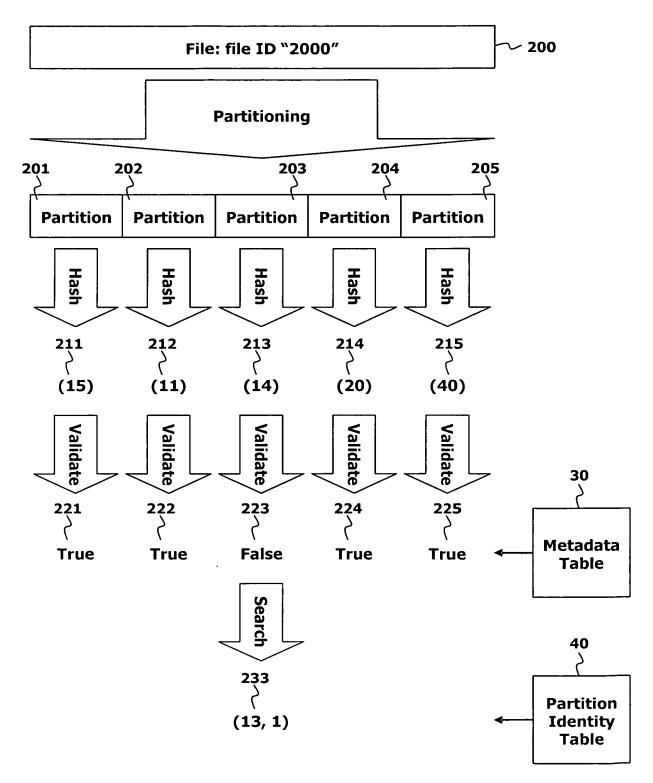
-	700	710	720	730	740	30
	File Id	Location		Hash Values	Size	
	1000	1.10		10, 13, 20, 30	512	~ 751
	2000	2.15		15, 11, 13, 20, 40	512	~ 7 52
	3000	3.5		10, 18, 13, 40	1024	~ 753
	R300	1.5		11	512	~ 754
L						

FIG. 4A

800 ~	810	820 حا	830	40
Hash Value	Group Id	File Id	Partition Number]
11	1	R300	1	1
11	1	2000	2	
12	4	900	7]
13	1	1000	2	~ 851
13	1	1500	3	~ 852
13	1	2000	3	~ 854
13	2	3000	3	853
14	7	800	21	
14	9	2300	3	
15	1	1600	2]
15	1	2000	1]
]

FIG. 5A

FIG. 6



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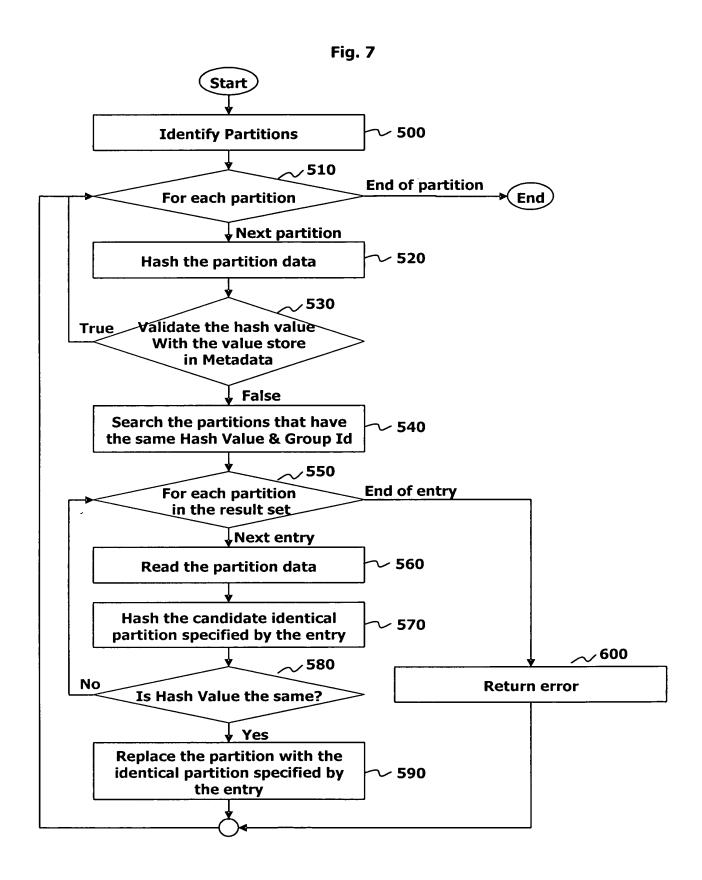


FIG. 8

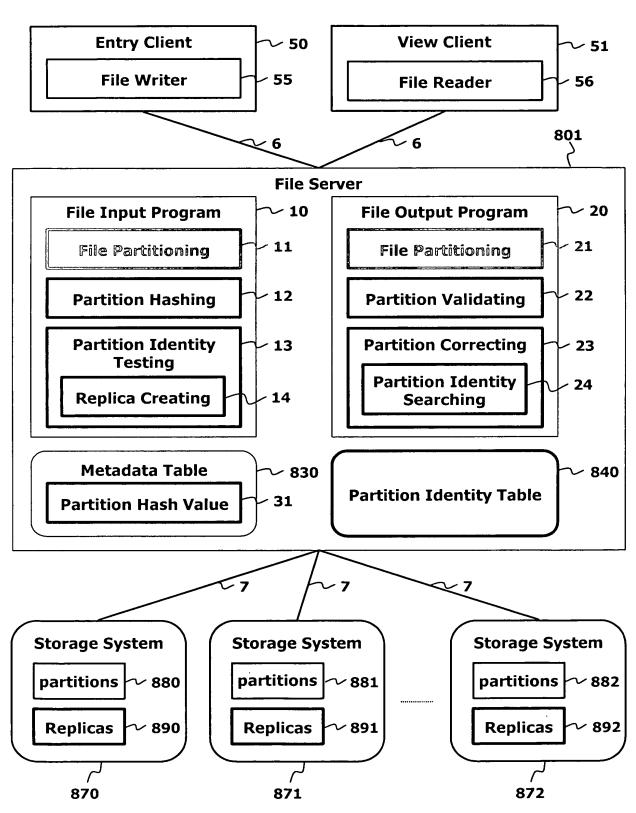


Fig. 9 **View Client Entry Client √** 50 **~51 File Writer ~ 55** File Reader **56 1a ~**6 \approx 6 **File Server ~ 10a** ~ 20a **File Output Program File Input Program** 22a 12a File Validating File Hashing **File Identity Testing File Correcting** 13a 23a File Identity 24a **Replica Creating** Searching 14a Metadata 40a ✓ 30a **File Identity** 31a Information File Hash Value **Storage System Storage System Storage System**

Files

Replicas

71a

Files

Replicas

70a

~80

∕90a

~81

~91a

Files

Replicas

72a

~82

~92a